



WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: wbcil@wbcil.com

Website: www.wbcil.com

Section 1 - Chemical Product and Company Identification

MSDS Name: Ammonium Propionate

Product Code: AMPNL85

Company Identification:

WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

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Fax: +91 33 2574 7410

Website: www.wbcil.com

Email: wbcil@wbcil.com

Emergency Telephone No.: +91 9874356081

Section 2 - Composition / Information on Ingredients

Substances

SI No.	Ingredient Name	CAS Number	EC Number	Molecular Wt.	Molecular Formula
1)	Ammonium Propionate	17496-08-1	241-503-7	91.11 g/mol	C ₃ H ₉ NO ₂

Section 3 - Hazards Identification

Signal Word

Danger Danger

Hazard Statement

H314 Causes severe skin burns and eye damage.

H315 (47.06%): Causes skin irritation

H318 Causes serious eye damage.

H319 (47.06%): Causes serious eye irritation

H335 (67.06%): May cause respiratory irritation

Precautionary Statement

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261: Avoid breathing

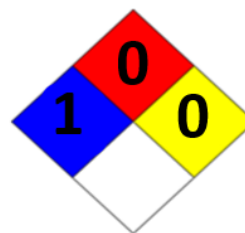
dust/fume/gas/mist/vapors/spray.

P264: Wash hands [and ...] thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.



NFPA SCALE (0-4)

Health	1
Flammability	0
Physical Hazard	0
Personal protection	E

HMIS RATINGS (0-4)





P302+P352: IF ON SKIN: wash with plenty of water
P304+P340 IF INHALED: Remove casualty to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Remove contact lenses, if possible.

P363: Wash contaminated clothing before reuse.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P264+P265: Wash hands thoroughly after handling. Do not touch eyes.

P302+P361+P354: IF ON SKIN: Take off Immediately all contaminated clothing. Immediately rinse with water for several minutes.

P316: Get emergency medical help immediately.

P317: Get emergency medical help.

P319: Get medical help if you feel unwell.

P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P332+P317: If skin irritation occurs: Get medical help.

P337+P317: If eye irritation persists: Get medical help.

P310 Immediately call a POISON CENTER or doctor/physician.

P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

2.3 Other hazards

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

Skin Corr. 1B (52.94%)

Skin Irrit. 2 (47.06%)

Eye Dam. 1 (52.94%)





Eye Irrit. 2 (47.06%) STOT SE 3 (67.06%) UN number : 1759	
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Section 4 - First Aid Measures

General advice:

Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash off thoroughly with ample water.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention.

Note to physician:

Symptoms: Overexposure may cause: asthma, coughing

Treatment: Symptomatic treatment (decontamination, vital functions).

Section 5 - Fire-Fighting Measures

Suitable extinguishing media: water spray, carbon dioxide, dry powder, foam.

Specific hazards: Evolution of fumes/fog.

Special protective equipment: Wear self-contained breathing apparatus and chemical-protective clothing.

Section 6 - Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.





Section 7 - Handling and Storage

Conditions for safe storage, including any incompatibilities

Storage temperature

store at 2°C - 8°C

Storage condition

close container well, keep dry

Storage Requirements

Keep container tightly closed when not in use, since hygroscopic. Keep away from incompatible substances.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls	:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	:	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves
Personal protection in case of a large spill	:	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure limits	:	Not available.

Section 9 - Physical and Chemical Properties

Appearance form	
Form	: Liquid
Colour	: Colourless to light yellow liquid
pH	: 5.50 – 7.50
Weight/100 ml	: NLT 105.0 gm/100 ml
Melting / freezing pt.	: 38.2 °C
Decomp. temp.	: =25 - < 150 °C
Vapor pressure	: 2.81 mm Hg at 25 °C
water solubility	: 5.41 other: mol/L at 25°C





Flash point	: >= 104 °C
Relative density	: around 1.65
Boiling Point	: 142°C
Other physical & chemical properties	: No data available.

9.2 Other safety information
no data available

Section 10 - Stability and Reactivity

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11 - Toxicological Information

Acute toxicity:

Information on: propionic acid

Assessment of acute toxicity:

Of low toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.

Information on: propionic acid

LD50: 5 000 mg/kg (female rat, oral)

Information on: propionic acid

LC50 rat (by inhalation): > 19.7 mg/l 1 h

LC0 rat (by inhalation): 24.4 mg/l 8 h (IRT)

Information on: propionic acid

LD50 guinea pig (dermal): 4,960 - 9,930 mg/kg

Irritation

Assessment of irritating effects:

Risk of serious damage to eyes. Irritating to skin.

Primary skin irritation rabbit: Irritant. (OECD Guideline 404)

Primary irritations of the mucous membrane cattle: Risk of serious damage to eyes. (BCOP)

Assessment other acute effects

Assessment other acute effects:





Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Sensitization

Information on: propionic acid

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Repeated dose toxicity

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation.

Genetic toxicity

Information on: propionic acid

Assessment of mutagenicity: Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Carcinogenicity

Information on: propionic acid

Assessment of carcinogenicity: In long-term animal studies in which the substance was given in high concentrations by feed, a carcinogenic effect was not observed.

Reproductive toxicity

Information on: propionic acid

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Information on: propionic acid

Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Section 12 - Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short-term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

for Dalphina magna : ECO : 100 mg/L in 48 h

EC100 >100 mg/L in 48 h





EC50: >100 mg/L in 48 h

NOEC 100 mg/L in 48 h

for freshwater algae: EC10 : ≥ 48.3 - ≤ 59.5 mg/L in 72 h

EC20 >100 mg/L in 72 h

EC50: >100 mg/L in 72 h

NOEC 9.8 mg/L in 72 h

LOEC 31.3 mg/L in 72 h.

Special Remarks on the Products of Biodegradation: Not available.

Section 13 - Disposal Considerations

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14 - Transport Information

DOT Classification : Not a DOT controlled material

Air transport Goods : Nonhazardous/non dangerous as per IATA DGR.

Special Provision for Transport : Not applicable

IATA Specification Non-dangerous, non-hazardous

DOT (Pictograms)

AS PER IATA REGULATION SAFE FOR CARRAGE, NON-HAZARDOUS AND NON-RESTRICTED.

NO SPECIAL LABELLING OR TRANSPORT MEASURE HAVE BEEN IDENTIFIED.

THIS IS NOT REGULATED AS PER IATA REGULATION



Section 15 - Regulatory Information

This product is hazardous or contains components, which are hazardous according to the OSHA Hazard Communications Standard.

Other regulatory information applies that is not already provided elsewhere in this safety datasheet, then it is described in this subsection.

Registration status:

AICS, AU released / exempt

Section 16 - Other Information





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Disclaimer:

This material safety data sheet is provided as an information resource only. WEST BENGAL CHEMICAL INDUSTRIES LIMITED believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

Issue Date: December, 2023

Revision No.: 04

Revision Date: November, 2025

